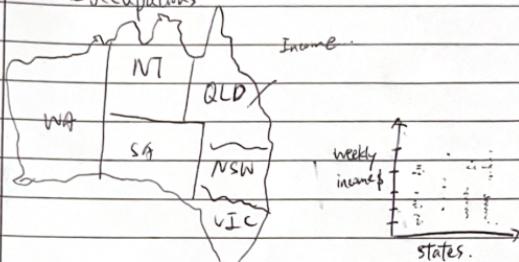


IDEAS

- regions - Incomes - filters.
- occupations



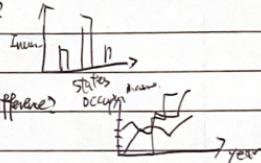
Filter

region-based - states in AU

income bracket - income ranges

Year based. - 2014 - 2019?

Compare - Top 2 or 3 states have the highest weekly income?



Categorise

If categorise e.g.	
Avg. Income	\$1200
year	2023
State	NSW
Occupation	Doctor.
Avg age age	45
population	3.2m.

Table?	
Age	1
Age	2
Age	3
Age	4

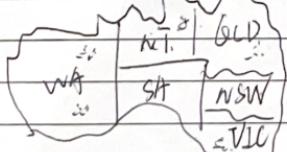
* why different?

* Features.

* population of the data set.

Combine & Refine

Adding dots to show the region difference.



States	income avg.	Avg. Occup.
WA	1	1
NT	2	2
SA	3	3
NSW	4	4
VIC	5	5
QLD	6	6

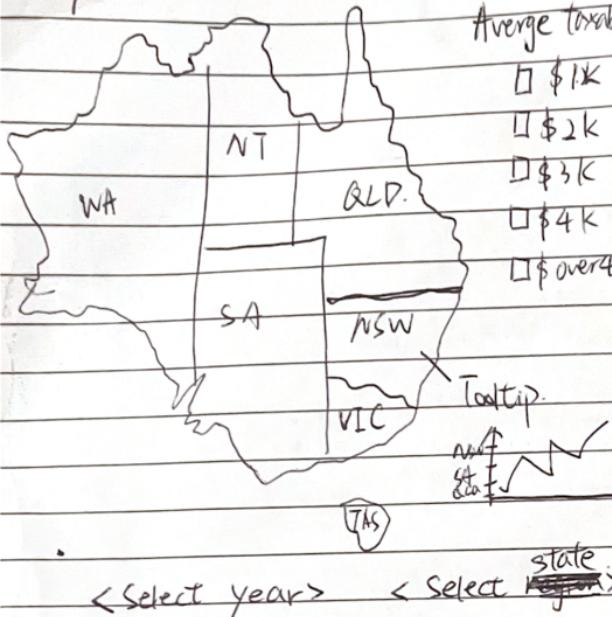
more detailed insights.

highest income \$.

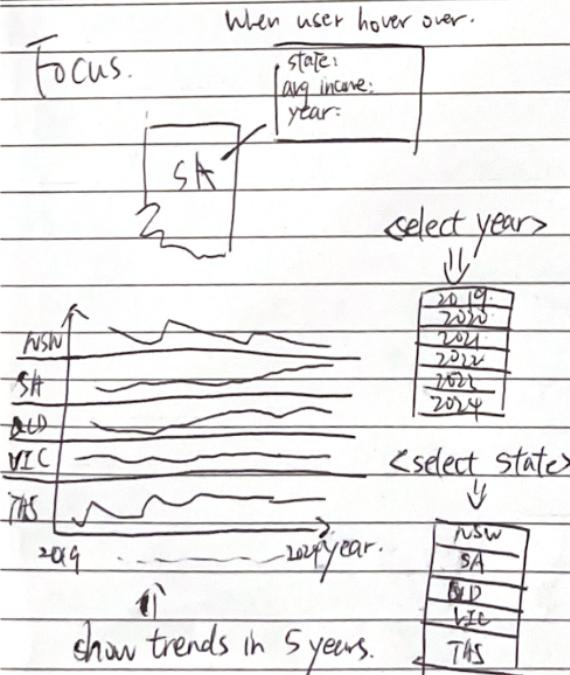
Add components of income.

Select year.

Layout



population:



Title: regional incomes

Author: Shaya Lin

Date: 06/10/2024

Sheet: 02.

Task: FIT3179 Ass2

Operations.

- Use a color gradient where dark shades represent higher incomes ~~and lighter shades represent lower incomes~~
- Hover over regions to see the exact income for that area.
- <select year>
- <select region>
- highlight the interactivity.

Discussion.

Pros.

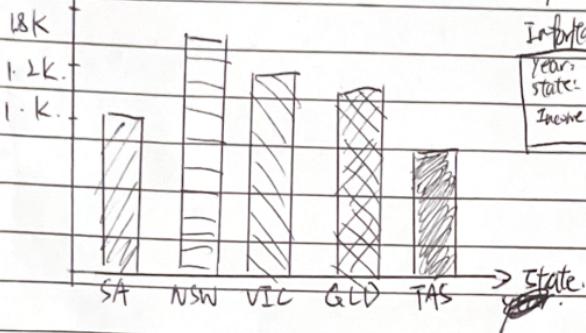
- Direct visual mapping of data to geography
- Easy to understand.

Cons.

- May obscure small regions if there's a lot of variation.

Layout

Income



Title = regional incomes.

Author: Shaya Liu.

Date: 06/10/2024

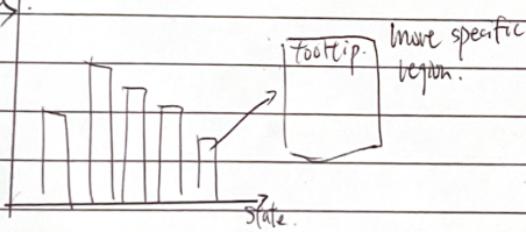
Sheet: 03.

Task: FIT3179 Ass2.

Operation.

- Each bar represents a state with the length of the bar corresponding to the income level.
- Axis clearly label the state and income.
- interactive tooltip allow user to hover over bars to get precise income data.

Focus:



Discussion:

Pros:

- good for exact comparison of values between states.
- Allows users to easily compare which state has the highest or lowest income.

<year>

2019
2020
2021
2022
2023
2024

users can select a specific year.

Infor table

selected year: 2023

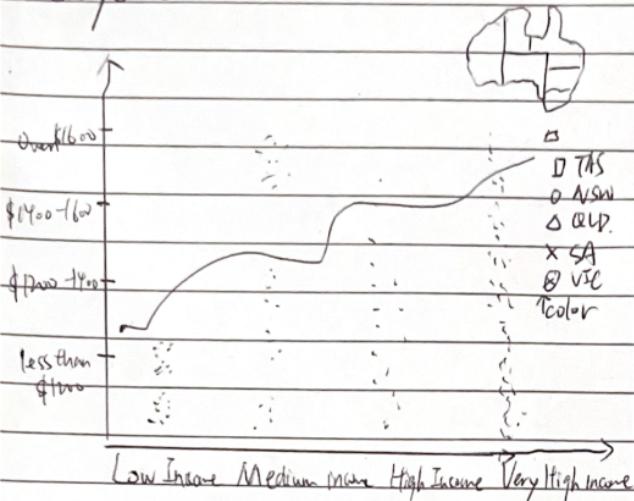
state: NSW.

occupation:

Cons:

- No geographical distribution of the states.
- may not insightful.

Layout



Title: Regional incomes

Author: Shaya Liu

Date: 06/10/2024

Sheet: 04

Task: FIT3179 Assignment 1

Operation:

- Dots represent each state's existing income levels.
- Color each dot based on geographic region.
- Trend lines by dragging the button at the year to overall direction of income changes across regions.
- Tooltip allow users find information.

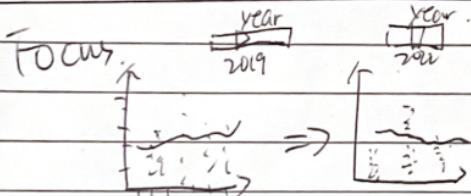
Discussion:

Pros:

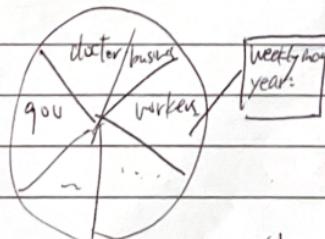
- Simple and minimalist. Allow for easy understanding of income distribution.
- Dots can be colored based on states.

Cons:

- not convey geographic relationship between states



as ~~the~~ dragging the button by years
the graph changes to show the change.
and the trend



as users hover over, the
tooltip will show.

Layout

The Distribution of Regional Incomes Across Australia

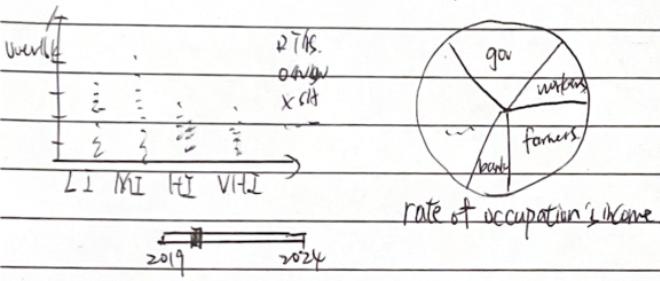
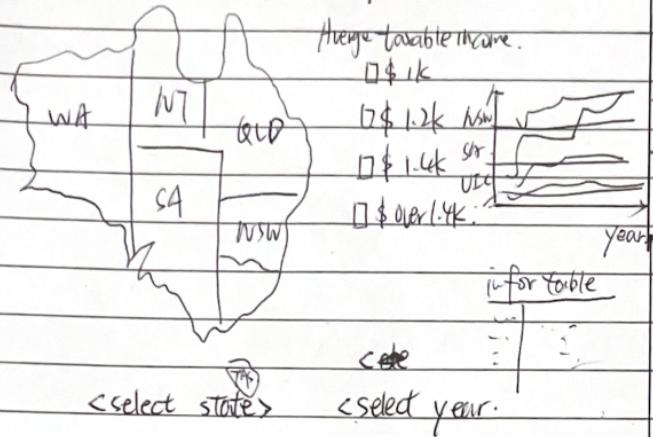
Title: Regional incomes.

Author: Shaya Lin.

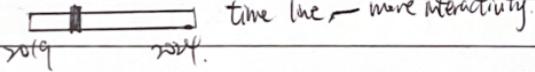
Date: 06/10/2024

Sheet: 65.

Task: FITS179 Assignment 2.



Focus



<select state> <select year> users have more choices.

Discussion:

- more graphic visualization?
- dot plot may not be the best for the visualization tree map?

Infor table	state	Avg income	provide more detailed information for users to do research.
-	-	-	-
-	-	-	-

- The visualization would be created by Vega-Lite using the library.

color
↑ easy to distinguish the data.

- change the infor table to be more precise.